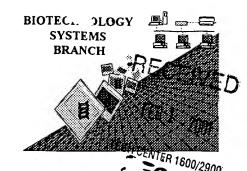
Brannock

## RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical In Center (STIC) detected errors when processing the following computer form: TECH CENTER 1600/2001

Application Serial Number:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin 30 help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



J. Brannock

RAW SEQUENCE LISTING

DATE: 01/23/2001

48

384

Input Set : A:\BIV-52.02 Sequence Listing.txt

Output Set: N:\CRF3\01232001\I435733.raw

3 <110> APPLICANT: Galdes, Alphonse

Mahanthappa, Nagesh 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING

PATENT APPLICATION: US/09/435,733

PERIPHERAL NEUROPATHIES

9 <130> FILE REFERENCE: BIV-052.02

11 <140> CURRENT APPLICATION NUMBER: 09/435,733

12 <141> CURRENT FILING DATE: 1999-11-08

14 <160> NUMBER OF SEQ 1D NOS: 28

16 <170> SOFTWARE: PatentIn Ver. 2.0

18 <210> SEQ ID NO: 1

19 <211> LENGTH: 1277

20 <212> TYPE: DNA

21 <213> ORGANISM: chicken Shh

23 <220> FEATURE:

24 <221> NAME/KEY: CDS

25 <222> LOCATION: (1)..(1275)

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5 10 32 tgc get ett tta gtc tec tet ggg etg act tgt gga eea gge agg gge

33 Cys Ala Leu Leu Val Ser Ser Gly Leu Thr Cys Gly Pro Gly Arg Gly 34 20 25 30 36 att gga aaa agg agg cac ccc aaa aag ctg acc ccg tta gcc tat aag

144 37 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys 35 38 40 45 40 cag titt att ccc aat gig gea gag aag acc cta gig gee agi giga aga 192

41 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg 55 60 44 tat gaa ggg aag atc aca aga aac tee gag aga ttt aaa gaa eta ace 240

45 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr 46 65 70 48 cca aat tac aac oot gac att att tit aag gat gaa gag aac acg gga 49 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly

85 90 52 get gac aga etg atg act cag ege tge aag gac aag etg aat gee etg 336 53 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu

300 1.05 56 gcg atc tcg gtg atg aac cag tgg ccc ggg gtg aag ctg cgg gtg acc 57 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr

1.1.5 1.20 60 gag ggc tgg gac gag gat ggc cat cac tee gag gaa teg etg cac tac 432 61 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr 140

135 62 1.30 64 gag ggt cgc gcc gtg gac atc acc acg tcg gat cgg gac cgc agc aag 480 65 Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys 150 155

Does Not Comply Corrected Diskette Needed 
 RAW SEQUENCE LISTING
 DATE: 01/23/2001

 PATENT APPLICATION:
 US/09/435,733
 TIME: 14:42:37

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Output Set: N:\CRF3\01232001\1435733.raw

			4.	ctg	-					•	_			_			528
	Туг	Cly	Met	Leu		Arg	Ľeu	Ala			Ala	GLY	Phe	Asp	_	Val	
70					165				- '	170					1.75		
				tcc	-							-		-			576
	Tyr	Tyr	Glu	ser	Lys	Ala	His	Ile		Cys	Ser	Val	Lys		GLu	Asn	
74				180					185					190			
				gcg					_			-		-			624
	Ser	Va.l		Ala	Lys	Ser	Gly	-	Cys	Phe	Pro	G.I y		Ala	Thr	Val	
78			195					200					205				
				cat													672
	His		Glu	His	GTA	GLY		Lys	Leu	Val	Lys		Leu	ser	Pro	GIY	
82		210					215					220					
				ctg													720
		Arg	Val	Leu	Ala		Asp	Ala	Asp	GLY	_	Leu	Leu	туг	Ser		
	225					230					235					240	
				ttc													768
	Phe	Leu	Thr	Phe		Asp	Arg	Met	Asp		ser	Arg	Lys	Leu		Tyr	
90					245					250					255		
	-			acg		_			-		-		_				816
	Val	Ile	Glu	Thr	Arg	GIn	Pro	Arg		Arg	Leu	Leu	Leu		Ala	Ala	
94				260					265					270			
		•••		ttt.		-					-	_	-	-			864
	His	Leu		Phe	Val	Ala	Pro		His	Asn	GLn	Ser		A J.a	Thr	GTĀ	
98			275					280					285				010
			-		_				-							caa	912
				: GLy	GIn	Ala			ALa	ser	ASI			Pro	GT2	/ Gl.n	
1.02		290					295					300					0.00
																tet	960
	_		тут	· Val	Leu	_		G.L.Y	GLY	GIn			Let	Pro	A.L.	ser	
	305					310					315					320	1000
	-			-									_			cca	1008
		H 1.5	ser	· val			Arg	G.Lu	GIU			. Сту	A.J.d	тут		Pro	
110					325					330				. ~~~	335		1056
			•	•										-		tgc	1056
		THE	Ald	340	-	THE	116	reu	345		ALG	y va.ı	. цеп	350		Cys	
114						A 5. A					ant	. + ~					1104
								-		•			•			cca	1104
	•	Ala			GIU	GIU	HIS		-	Ala	HIS	Trp	365		Alc	Pro	
118			355				- t	360			a tra				~~~		1150
			•	-					_	-		-		-		gcc	1.152
				Ala	G.L.II	Gly			ALd	Ald	ren	380		ASP	Grà	Ala	
122		370		000	""	200	375		204	~~~	ato			+	+	000	1200
																cgg	1.200
125			THE	Ald	ATG			THE	THI	СТУ	395		rrp	TYL	261	Arg 400	
126			+		51 to co	390		+ ~ ~	ata	at~			a a d		oto		1248
							_			-			-		-	cat	1240
130		Leu	түг	Arg	405	отй	Ser	тър	val	41.0	-	, сту	нър	ATG	415	His	
		at.				000	000	000	200						4 1.0	,	1277
136	oug	CLG	ggc	atg	y cg	gca	ceg	gee	ayo	Ly							1211

 RAW SEQUENCE LISTING
 DATE: 01/23/2001

 PATENT APPLICATION: US/09/435,733
 TIME: 14:42:37

Input Set : A:\BIV-52.02 Sequence Listing.txt
Output Set: N:\CRF3\01232001\1435733.raw

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RAW SEQUENCE LISTING DATE: 01/23/2001
PATENT APPLICATION: US/09/435,733 TIME: 14:42:38

Input Set : A:\BIV-52.02 Sequence Listing.txt
Output Set: N:\CRF3\01232001\1435733.raw

	cgg																672
	Arg		Gly	C1u	Arg	Lys		Leu	Arg	G l.u	Leu		Arg	Gly	Asp	Trp	
200		210					215					220					
	gta	-							,-		-		_			-	720
	Val	Leu	Ala	Ala	Asp		Ala	Gly	Arg	Val		Pro	Thr	pro	Va I.		
	225					230					235					240	
	ctc																768
	Leu	Phe	ren	Asp	-	Asp	Leu	GLn	Arg		Ala	ser	Phe	Val		Val.	
208					245					250					255		016
	gag																816
211	Glu	THE	Gru	260	PLO	Pro	Arg	Lys	265	ren	Leu	THE	PLO	270	nıs	Leu	
	gtg	tta	aat		caa	aaa	003	aca		act	cca	aat	aac.		aca	CCG	864
	Val		•	-	-					-							004
216	va ı,	rne	275	H J. G	M. g	OTA	P 1. O	280	PIO	A.I.u	F.1. U	GIA	285	FIIC	A.Lu	F 1. O	
	gtg	ttc		cac	cac	tta	cat		aac	gac	tea	ata		act	ccc	aac	912
	Val																3
220		290					295		U-1			300				2	
	ggg		qçq	ct.c	caq	ccq		cac	qta	qcc	CGC	qtq	qcq	cqc	gag	qaa	960
	G17																
	305					310					315			-		320	
226	gcc	gtg	ggc	gtg	ttc	gca	ccg	ctc	act	gcg	cac	ggg	acg	ctg	ct.g	gtd	1008
227	Λla	va.L	Gly	Val	Phe	A.l.a	Pro	Leu	Thr	Ala	His	Gly	Thr	Leu	Leu	Val	
228					325					330					335		
230	aac	gac	gtc	ctc	gcc	tcc	tgc	tac	gcg	gtt	cta	gag	agt	cac	cag	tgg	1056
231	Asn	Asp	Val.	Leu	Ala	ser	Cys	Туr	Ala	Va1	Leu	Glu	Ser	His	Gln	Trp	
232				340					345					350			
	gcc		-			-				-	-		-			-	1104
	Ala	His		Ala	Phe	Ala	Pro		Arg	Leu	Leu	His		Leu	Gly	Ala	
236			355					360					365				
	ctg																1152
	Leu		Pro	GTÀ	GTA	A.I.a		GIN	Pro	THE	GTÀ		H 3.S	Trp	туг	ser	
240	cgc	370	att	+	000	++ ~	375	a 2 a	~~~	t- t	ata	380	+ 0				1190
	Arq				-		•				-		Ly				1130
	385	Leu	neu	171	211.9	390	Ald	Giu	Gra	neu	395	GII					
	<21.0	) ~ CI	T OS	OM C	. 3	390					393						
	<211																
	<212																
	<213				mous	se Il	ıh										
	<220																
	<221				CDS												
253	<222	2> L0	CAT	ON:	(1)	. (12	233)										
255	<400	)> SE	EQUE	ICE:	3												
256	atg	tct	ccc	gcc	tgg	ctc	cgg	ccc	cga	ctg	cgg	ttc	tgt	ctg	ttc	ctg	48
257	Met	Ser	Pro	Al.a	Trp	Leu	Arg	Pro	Arg	Leu	Arg	Phe	Cys	Leu	Phe	Leu	
258	1				5					10					15		
	ctg		_		_		_					-		-			96
261	Leu	Leu	Leu	Leu	Leu	Val	Pro	Ala	Ala	Arg	Gly	Cys	Gly	Pro	Gl.y	Arg	

RAW SEQUENCE LISTING DATE: 01/23/2001
PATENT APPLICATION: US/09/435,733 TIME: 14:42:38

## Input Set : A:\BIV-52.02 Sequence Listing.txt Output Set: N:\CRF3\01232001\1435733.raw

262				20					25					30			
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			Gly														
266		,	35		;	,	;,	40		,			45				
	tac	аап	caq	ttc	age	ccc	aac		cca	gag	аад	acc		aac	acc	age	192
		_	Gln						•				•		.,	_	+22
270	1 1 1	50	13 1.11	LIIC	JC I.	1 1.0	55	vui	11.0	Q1.u	n/ 2	60	ncu	U.L.y	111.0	501	
	aaa		tac	(133	aga	330		aaa	000	200	tat		0/10	++0	202	(12(1	240
			Tyr														240
274	65	мту	IYL	OT II	G I. y	70	1.1.0	АТа	AIG	361	75	U L U	AI. 9	rne	цуз	80	
		200	000	220	+ > 4		000		24.0	ato		224	0.20	(13(	(12.0		288
			CCC									-	-		-		200
	Leu	Thr	Pro	ASn		ASI	PLO	ASP	me		Pne	Lys	ASP	GII		ASII	
278					85					90					95		226
			gcc														336
	Thr	GTA	۸la	•	Arg	Leu	мет	Thr		Arg	Cys	Lys	Asp	-	ren	Asn	
282				100					105					110			
			gcc														384
	Ser	Leu	Ala	Ile	Ser	Val	Met		GLn	Trp	Pro	GTA		Lys	Leu	Arg	
286			1.15					120					125				
			gaa				-	•									432
	Val		G l.u	Gly	Arg	Asp		Asp	Gly	Hi.s	His		Glu	Glu	ser	ren	
290		130					1.35					140					
			gag														480
293	His	Tyr	Glu	Gly	Arg	Ala	Val	Asp	Ile	Thr	Thr	ser	Asp	Arg	Asp	Arg	
294	145					150					155					160	
296	aat	aag	tat.	gga	ctg	ct.g	gcg	cgc	tta	gca	gtg	gag	gcc	ggc	ttc	gac	528
297	Asn	Lys	Ty.r	G l.y	Leu	Leu	Ala	Arg	Leu	Ala	Val	GLu	A.l.a	Gly	Phe	Asp	
298					1.65					170					175		
300	tgg	gtg	tat	tac	gag	tcc	aag	gcc	cac	gtg	cat	tgc	tct	gtc	aag	tct	576
301	Trp	Val	Tyr	Tyr	Glu	Ser	Lys	Ala	His	Va.l	His	Cys	Ser	Val	Lys	ser	
302				180					1.85					190			
304	gag	cat	t.cg	gcc	gct	gcc	aag	aca	ggt	ggc	tgc	ttt	cct	gcc	gga	gcc	624
305	Glu	His	ser	Ala	Ala	Ala	Lys	Thr	Gly	Gly	Cys	Phe	pro	Ala	Gly	Ala	
306			1.95					200					205				
308	cag	gtg	cgc	cta	gag	aac	ggg	gag	cgt	gtg	gcc	ctg	tca	gct.	gta	aag	672
309	G.ln	Val	Arg	Leu	Glu	Asn	Gly	G.l.u	Arg	Val.	Al.a	Leu	Ser	Ala	Val	Lys	
310		210					215					220					
31.2	cca	gga	gaç	egg	gtg	ctg	gcc	atg	ggg	gag	gat	ggg	acc	ccc	acc	ttc	720
313	Pro	Gly	Asp	Arg	val	Leu	Ala	Met	Gly	G.Lu	Asp	Gly	Thr	Pro	Thr	Phe	
314	225					230					235					240	
316	agt	gat	qtq	ctt	att	ttc	ctg	gac	cgc	gaq	cca	aac	cqq	ctq	aga	get	768
	**	•	Val				**	**	-					-			
31.8		•			245			•	-	250			•		255		
	ttc	caq	gtc	atc	gag	act	caq	gat:	cct:	cca	cat.	caa	ct.a	aca	ct.c	acq	816
			Val				_	-		-	-		-			, -	
322		•		260				1	265		)	3		270			
	cct	qcc	cac		ctc	ttc	at:t	aca		aat	cat	aca	gaa		aca	acc	864
		-	His	•									•			•	
326			275					280				,	285	3			

## VERIFICATION SUMMARY DATE: 01/23/2001 PATENT APPLICATION: US/09/435,733 TIME: 14:42:39

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Output Set: N:\CRF3\01232001\I435733.raw

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L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1613 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:15
L:1613 M:258 W: Mandatory Feature missing, <222> not found for SEQ TD#:15
L:1613 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:2111 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2112 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2113 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
\label{eq:L:2114} L\colon 2114\ \text{M}\colon 259\ \text{W}\colon \ \text{Field exceeds allowed number of lines, <223>\ \text{Other Information}\colon
L:2115 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2116 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
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L:2118 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2119 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2120 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2121 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2122 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2123 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
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L:2125 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
L:2126 M:259 W: Field exceeds allowed number of lines, <223> Other Information:
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L:2138 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:2138 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
M:340 Repeated in SegNo=21
\text{T.:}\,2147\ \text{M}:258\ \text{W:}\ \text{Mandatory Feature missing, }<221>\ \text{not found for SEQ ID}\#:21
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 VERIFICATION SUMMARY
 DATE: 01/23/2001

 PATENT APPLICATION: US/09/435,733
 TIME: 14:42:39

Input Set : A:\BIV-52.02 Sequence Listing.txt
Output Set: N:\CRF3\01232001\I435733.raw

·L:2195 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2196 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2197 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2198 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2199 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2200 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2201 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2202 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  ${\tt L:2203~M:259~W:~Field~exceeds~allowed~number~of~lines,~<223>~Other~Information:}$ L:2204 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  $L:2205\ \text{M}:259\ \text{W}:$  Field exceeds allowed number of lines, <223> Other Information: L:2206 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2207 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  $L\colon\! 2208\ M\colon\! 259\ W\colon\!$  Field exceeds allowed number of lines, <223> Other Information:  $L:2209\ M:259\ W:$  Field exceeds allowed number of lines, <223> Other Information: L:2210 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2211 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  $L:2212\ M:259\ W:$  Field exceeds allowed number of lines, <223> Other Information: L:2213 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2214 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2215 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2216 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2217 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2218 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2219 M:259 W: Field exceeds allowed number of lines, <223> Other Information: L:2222 M:258 W: Mandatory Feature missing, <221> not found for SEQ 1D#:22 L:2222 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 I:2222 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22 L:2225 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2225 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 M:340 Repeated in SeqNo=22 L:2228 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2228 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2231 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2231 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2234 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2234 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2237 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2237 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2240 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2240 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2243 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2243 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 T.: 2246 M: 258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2246 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:2249 M:258 W: Mandatory Peature missing, <221> not found for SEQ ID#:22 L:2249 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22L:2252 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:2252 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22

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<210> 21 <211> 221 <212> PRT <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: degenerate
 polypeptide sequence

2217 - response

mardating humeric

2227 whenever h"or yr esents Xaa" is shown.

& second Section

first section

<220>
<223> Xaa(7) represents Gly, Ala, Val, Leu, Ile, Phe, Tyr
or Trp; Xaa(9) represents Arg, His or Lys; Xaa(44) represents
Gly, Ala, Val, Leu, Ile, Ser or Thr; Xaa(85) represents Gly,
Ala, Val, Leu, Ile, Ser or Thr; Xaa(93) represents Lys, Arg,
His, Asn or Gln; Xaa(98) represents Lys, Arg or His; Xaa(112)
represents Ser, Thr, Tyr, Trp or Phe; Xaa(132) represents Lys,
Arg or His; Xaa(137) represents Met, Cys, Ser or Thr; Xaa(139)

represents Gly, Ala, Val, Leu, Ile, Ser or Thr; Xaa(181) represents Leu, Val, Met, Thr or Ser; Xaa(183) represents His, Phe, Tyr, Ser, Thr, Met or Cys; Xaa(185) represents Gln, Asn, Glu, or Asp; Xaa(186) represents His, Phe, Tyr, Thr, Gln, Asn, Glu or Asp; Xaa(189) represents Gln, Asn, Glu, Asp, Thr, Ser, Met or Cys; Xaa(191) represents Ala, Gly, Cys, Leu, Val or Met; Xaa(196) represents Arg, Lys, Met, Ile, Asn, Asp, Glu, Gln, Ser, Thr or Cys; Xaa(200) represents Arg, Lys, Met or Ile; Xaa(206) represents Ala, Gly, Cys, Asp, Glu, Gln, Asn, Ser, Thr or Met; Xaa(207) represents Ala, Gly, Cys, Asp, Asn, Glu or Gln; Xaa(209) represents Arg, Lys, Met, Ile, Asn, Asp, Glu or Gln; Xaa(211) represents Leu, Val, Met or Ile; Xaa(212) represents Phe, Tyr, Thr, His or Trp; Xaa(216) represents Ile, Val, Leu or Met; Xaa(217) represents Met, Cys, Ile, Leu, Val, Thr or Ser; Xaa(219) represents Leu, Val, Met, Thr or Ser. In an even more expansive library, each Xaa can be selected from any amino acid.

Per 1.823 of new Sequence Rules, each 22237 section has a maximum of four leves. Please divide current 22237 a maximum of four leves. Please precède section entre groups of 4 lines each. Please precède lach (2237 section with the numeric identifice (2207; each (2237 section with the numeric identifice (2207; tri a "Leader" only-to response.

This a "Leader" only-to response.

Please Note:

Use f n and/or Xaa have been detected in the Sequenc Listing. Please review the Sequence Listing t ensure that a corresponding explanation is presented in th <220> t <223> fields f each sequence which presents at least one n or Xaa.

FYI